

Python For Data Science

Jupyter Cheat Sheet

> Saving/Loading Notebooks

File Edit View Insert

New Notebook
Open...

Make a Copy...
Save as...
Rename...
Save and Checkpoint **Ctrl-S**

Revert to Checkpoint

Print Preview
Download as

Trusted Notebook

Close and Halt

Create new notebook

Make a copy of the current notebook

Save current notebook and record checkpoint

Preview of the printed notebook

Close notebook & stop running any scripts

Open an existing notebook

Rename notebook

Revert notebook to a previous checkpoint

Download notebook as

- IPython notebook
- Python
- HTML
- Markdown
- reST
- LaTeX
- PDF

> Writing Code And Text

Code and text are encapsulated by 3 basic cell types: markdown cells, code cells, and raw NBConvert cells

Edit Cells

Edit View Insert Cell

Cut Cells **X**
Copy Cells **C**
Paste Cells Above **Shift-V**
Paste Cells Below **V**
Paste Cells & Replace
Delete Cells **D**
Undo Delete Cells **Z**

Split Cell **Ctrl-Shift-Minus**
Merge Cell Above
Merge Cell Below

Move Cell Up
Move Cell Down

Edit Notebook Metadata
Find and Replace

Cut Cell Attachments
Copy Cell Attachments
Paste Cell Attachments

Insert Image

Cut currently selected cells to clipboard

Paste cells from clipboard above current cell

Paste cells from clipboard on top of current cell

Revert "Delete Cells" invocation

Merge current cell with the one above

Move current cell up

Adjust metadata underlying the current notebook

Remove cell attachments

Paste attachments of current cell

Copy cells from clipboard to current cursor position

Paste cells from clipboard below current cell

Delete current cells

Split up a cell from current cursor position

Merge current cell with the one below

Move current cell down

Find and replace in selected cells

Copy attachments of current cell

Insert image in selected cells

Insert Cells

Insert Cell Kernel

Insert Cell Above **A**
Insert Cell Below **B**

Add new cell above the current one

Add new cell below the current one

> Working with Different Programming Languages

Kernels provide computation and communication with front-end interfaces like the notebooks. There are three main kernels:

IP[y]:

IPython

R

IRkernel

IJ[●●●]

IJulia

Installing Jupyter Notebook will automatically install the IPython kernel.

Kernel Widgets Help

Interrupt **I**
Restart **R**
Restart & Clear Output
Restart & Run All
Reconnect
Shutdown
Change kernel

Restart kernel

Restart kernel & run all cells

Restart kernel & run all cells

Interrupt kernel

Interrupt kernel & clear all output

Connect back to a remote notebook

Run other installed kernels

Command Mode:

jupyter MyJupyterNotebook Last Checkpoint: 4 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Help Trusted Python 3 16 Logout

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

In []:

1. Save and checkpoint

2. Insert cell below

3. Cut cell

4. Copy cell(s)

5. Paste cell(s) below

6. Move cell up

7. Move cell down

8. Run current cell
9. Interrupt kernel

10. Restart kernel

11. Restart kernel and re-run notebook

12. Display characteristics

13. Open command palette

14. Current kernel

15. Kernel status

16. Log out from notebook server

Edit Mode:

In []:

Executing Cells

Cell Kernel Widgets Help

Run Cells **Ctrl-Enter**
Run Cells and Select Below **Shift-Enter**
Run Cells and Insert Below **Alt-Enter**
Run All
Run All Above
Run All Below
Cell Type
Current Outputs
All Output

Run selected cell(s)

Run current cells down & create a new one above

Run all cells above the current cell

Change the cell type of current cell

toggle, toggle scrolling and clear all output

Run current cells down & create a new one below

Run all cells

Run all cells below the current cell

toggle, toggle scrolling and clear current outputs

View Cells

View Insert Cell Kernel

Toggle Header
Toggle Toolbar
Toggle Line Numbers **Shift-L**
Cell Toolbar

Toggle display of Jupyter logo and filename

Toggle line numbers in cells

Toggle display of toolbar

Toggle display of cell action icons:

- None
- Edit metadata
- Raw cell format
- Slideshow
- Attachments
- Tags

> Widgets

Notebook widgets provide the ability to visualize and control changes in your data, often as a control like a slider, textbox, etc.

You can use them to build interactive GUIs for your notebooks or to synchronize stateful and stateless information between Python and JavaScript.

Widgets Help

Save Notebook Widget State
Clear Notebook Widget State
Download Widget State
Embed Widgets

Clear interactive widgets from Notebook

Embed current widgets

Save notebook with interactive widgets

Download serialized state of all widget models in use